FIG. 1A

									U											
	1	GGATA CCTA	AAG TTC	CCT GGA	GGG	GCC CGG	AGC TCC	ЗT	ACT	'CG	$G\underline{T}$	CTC	CC	CCC	CTT	CA	GAC	CT	TCT	'GG
	1							M			-	R					L			Н
V.		ACCA(TGGT)	CTG	ACT	GAG	GAG	1.1.7	4G	AGI	'AA	بحاف	TAC ATG P	GG	2 T W	TTC AAC L	-C I	GGC CCC A	331	1 (1	LO
																			~	
		GCGG'	TCT	GTG '	TGT	ŢĠĊ	AA;	CG	GGC	CGG	AG	GAC	TG	3.L.T.	TA.	ľAC	GT	- T T	CAA GTT O	.GA
	1	R Q			N							L				Α			_	
•	151 [,]	TCTG AGÂC	GAG CTC	GAA CTT	ATG	CAC	CGT	CG	TTC	FTC	:CC	TCT	CG	3GA	AA	JUU	GAG	بالحال		J.GA
	45	L	E	E	Y	V	Q	Q	ζ)	G	E	P	F	. (3	L	Р	G	r
		TCTC AGAG S	TGG	CACC STGG P	CGC	:CGI	rgc ACG(P	GC	GAG	CCG	GC	GCC CGG L	AC'	TCA	CCC	GGG	GG(CC(A	3A G	CGI GCT	AGC rcg S
	62		-	_			_										G3 (700	100	7.CM
		CATG	GTC	CCCG	ATG	GC	CAC.	AG	GC:	Γ CO	CC	CTG GAC L	GC	CGI	'CC'	TAC	GT(CGG	CGC	3GA
		н А																		
		GAGT CTCA	CAC	CGAC	GGG	CG	CGA	CA	AC	CTP	$^{\prime}$ CG	CGT GCA V	GG	CGG	CG	GCG	GT	CCC	BCC".	AGC FCG L
		S															_			
	351	TGAA ACTT	'GG(GCGC	GCG	GGG	GCG	CG	GA	CGI	ACG	CCT	CG	GAC	CT	CCT	GC	GTC	CGG	3CG
١	112			R																
*		CAGG	'AA	GCCC	GGG	BAC	CCG	CG	GC(GC	CAC	CTC	TG	TCI	ACG	ACC	GG	CGC	CGA	CCC
	128	Q V	7]	R A	I	٠ ر	G	A	A	7	J	E	Т	V	L	Α		A	L	G
		. CGCT	CG	TCGG	GCC	GCC	CGG	GC	CC	GG'	Γ C $^{-1}$	CGG	GC	'AG'	ГGG	CAG	CG	GT(3GG.	AGA
	145	A	A	A	R	G	P	G		P	E	P	V		r	V	Α	Т	L	F
		TCAC	CC	GGTT	GTO	CGT	GAC	GT	CC	GT	AG/	AGA	GI	'CG(${ t GTT}$	CCA	CG	AC(CCC.	AAG
	162	T T	A	N	S	Т	A	1	G	I	F	S		Α	K	V	L	(3	F
		CACC	TAC	ACGC	CGC	GAG	ATA	CC	GC	TC	ACC	CCAC	TC	:GG	CGT	'GTC	TC	CC	GCT	GGA
	178	H 7	J	C G]	L	Y	G	E	1	W	V	S	R	Т	' E		G	D	L
	601	CCC	CCA GGT	GCTG CGAC	GT(GCC CGG	AGC	GG CCC	GC CG	GT CA	CG(CCTG GGAC	AG TC	AG'	TGA ACT	ATA TAT	CT GA	TT'	TTC AAG	TTG AAC
	195	5 G	Q	L	V	P	G	G		V	Α	0								

FIG. 1B

651	TAAGCTCGCT ATTCGAGCGA	CTGTCTCGCC GACAGAGCGG	TCTTTGGCTT AGAAACCGAA	CAAATTTTCT GTTTAAAAGA	
701	CTGTGTCCTG		GGCTGTCCCT	ATCTTTCTGC	ATTTGTGTGG TAAACACACC
751 ·	TCTCTCTCTT AGAGAGAGAA	CTGCTCTCCT GACGAGAGGA			TTCCAACAGT AAGGTTGTCA
801	TTCTCGTTTT AAGAGCAAAA		AGTCTTGAAC TCAGAACTTG		CCGAGAGGTC GGCTCTCCAG
851	TCTTTTTGTT AGAAAAACAA	TCCTTGTCTC AGGAACAGAG	TTGGTTCTTT AACCAAGAAA		TTGCTTGCTT AACGAACGAA
901	GCTTGCTTGT CGAACGAACA	TGTTGAGACA ACAACTCTGT	GGGTCTCACC CCCAGAGTGG	ATATAGCTCT TATATCGAGA	GGATGGCCTG CCTACCGGAC
951	GAACTTGCTA CTTGAACGAT		GCTGGCCTCC CGACCGGAGG	AGCTCATAGA TCGAGTATCT	GATCCACTTG CTAGGTGAAC
1001		CCAATTTCCC GGTTAAAGGG		CCTGTGATCC GGACACTAGG	ATATGGGTAT TATACCCATA
1051	GTGTAACCCT CACATTGGGA	TACTTTGTCT ATGAAACAGA	CATGGAGGTG GTACCTCCAC		TCCCTTCAGT AGGGAAGTCA
1101	TTCTTTGTTC AAGAAACAAG	TTTACTGACC AAATGACTGG	AGAAAAGTGC TCTTTTCACG	CTACTTGTCC GATGAACAGG	=
1151		CCTTAGGACC GGAATCCTGG	TTCCCACCAG AAGGGTGGTC	_	GGCAAATCCC CCGTTTAGGG
1201		AGGTCCTTCC TCCAGGAAGG		GCCCTAGGCT CGGGATCCGA	GGTCAATGGA CCAGTTACCT
1251	GAGAGAAAGG CTCTCTTTCC	CAGAAAAACA GTCTTTTGT	TCTTTAAAGA AGAAATTTCT	GTTTTATTTG CAAAATAAAC	AGAATAAATT TCTTATTTAA
1301	AATTTTTGTA TTAAAAACAT	AATAAAATGT TTATTTTACA	TTAACAATAA AATTGTTATT	AACTAAACTT TTGATTTGAA	TTATGAAAAA AATACTTTTT
1351	AA (polyA) TT				

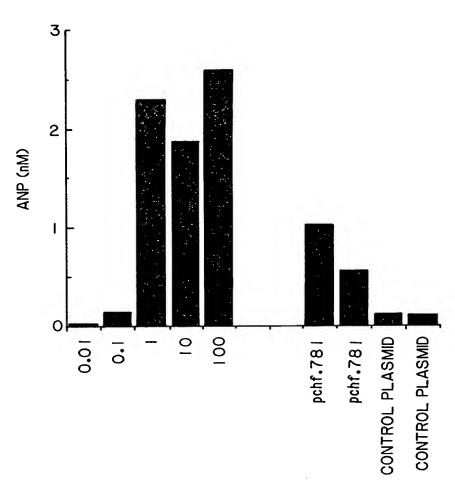
FIG. 2

	10	20	30	40	50
chf.781	MSQREGSLEDHQT	DSSISFLPHLE	AKIRQTHNLA	RLLTKYAEQI	LLEEYVQ
		**	**	•	
humcntf	MAF	TEHSPLTPHRR	DLCSRSIWLAI	RKIRSDLTA	LTESYVK
		10	20	30	40
	60	70	80	90	100
	QQGEPFGLPGFSP	DDI DI AGI.GGD	ADSHAGI PVS1	ERLRODAAA	LSVLPAL
chi.781	QQGEPFGLPGFSP	* *	ALDIMOLI VO	*** *	*
	** *				VPTEHVI.
humcntf	HQGLNKNINLDSA	DGMPVAS	TDOMSETIEW	о Мустинува	V IKITITATI
	50	60	70	8	υ.
	110	120	130	140	
chf 781	LD-AVRRRQAELN	PRAPRLLRSLE	DAARQVRALG.	AAVETVLAA	LGAAARG
	*	*	** *	×	*
h	LARLLEDQQVHFT	ртесреноатн	TLLOVAAFA	YOIEELMIL	LEYKIPR
numenci		0 110	120	13	0
	90 10	110	120		
			100	190	
1	50 160	170	180	777 T 7 U	DI COLUD
chf.781	PGPEPVTVATLFT	'ANSTAGIFSAK	Argenacera	GEWVSRTEG	** DPGÖTA 5
		* * *	* * *	* *	жж
humcntf	NEADGMPINV	GDGGLFEKK	CLWGLKVLQEL	SQWTVRSIH	DL-RFIS
	140	150	160	170	180
2	00				
chf 781					

SHQTGIPARGSHYIANNKKM humcntf 200 190

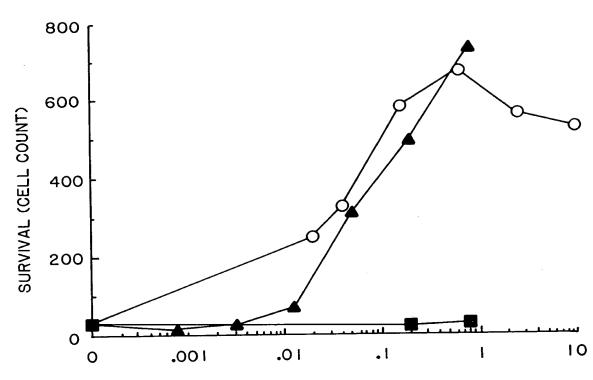
.Aiji.

FIG. 3



PHENYLEPHRINE (uM) STANDARD CURVE 293 TRANSFECTION

FIG. 4



CNTF STANDARD (ng/ml) OR
TRANSFECTED 293 CONDITIONED MEDIUM
(FRACTION OF ASSAY VOL)

FIG. 5A

1	GTGAAGGGAG CACTTCCCTC	CCGGGATCAG GGCCCTAGTC	CCAGGGGCCA GGTCCCCGGT	GCATGAGCCG CGTACTCGGC M S R	CTCCCTCCCT
51 7	ጥሮልርልሮሮሞሞሮ	ACCCCCAGAC TGGGGGTCTG PQT	ACTAAGGAGT	CAGAGTGAAG	AAGGGGTGAA
101 24	CCTCCGGTTC	ATCCGTCAGA TAGGCAGTCT I R Q T	GTGTGTCGGA	ACGCGTGGAG	GAGTGGTTTA
151 41	TGCGACTCGT	GCTGCTCCAG CGACGAGGTC L L Q	CTTATACACG	AGCTCCAGGG TCGAGGTCCC L Q G	TCTGGGGAAG
201 57	CCCGACGGGT	GCTTCTCGCC CGAAGAGCGG F S P	CGGCGCCGAC	GGCCACCGGC	CGGACTCGCG
251 74	CCCGGCTCCG GGGCCGAGGC P A P	AGCCACGCGG TCGGTGCGCC S H A G	CCGACGGTCA	GCACGAGCGG CGTGCTCGCC H E R	GACGCCGACC
301 91	TGCGCCGCCG	C GCTGGCCGCG CGACCGGCGC L A A	GACGGGGGCG	ACGACCTGCG	TCACACAGCG
351 107	GCGGTCCGGC	G AGCTGAACCC C TCGACTTGGG L N P	CGCGCGCGGC	GCGGACGACG	CGGCGGACCT
401 124	CCTGCGCCGC	G CGCCAGGCCC C GCGGTCCGGG R Q A R	CCCGGGACCC	GCGGCGCAC	CTCCGGAACG
451 141	ACCGGCGCG	G A A	TTGGCGCCCG	GGGCCCGGCT	CGGGGGGCGG

FIG. 5B

501 157	GCCACCGCCT CGGTGGCGGA A T A S	CAGCCGCCTC GTCGGCGGAG A A S	CGCCACCGGG GCGGTGGCCC A T G	GTCTTCCCCG CAGAAGGGGC V F P A	CCAAGGTGCT GGTTCCACGA K V L
551 174	GGGGCTCCGC CCCCGAGGCG G L R	GTTTGCGGCC CAAACGCCGG V C G L	TCTACCGCGA AGATGGCGCT Y R E	CACCGACTCG	CGCACCGAGG GCGTGGCTCC R T E G
601	GCGACCTGGG	CCAGCTGCTG GGTCGACGAC O L L	CCCGGGGGCT GGGCCCCCGA P G G S	CGGCCTGAGC GCCGGACTCG A O	GCCGCGGGGC
191 651	∆ GCTCGCCCC	GCCTCCTCCC	GCTGGGTTCC	GTCTCTCCTT CAGAGAGGAA	CCGCTTCTTT GGCGAAGAAA
701	GTCTTTCTCT CAGAAAGAGA	GCCGCTGTCG CGGCGACAGC	GTGTCTGTCT CACAGACAGA	GTCTGCTCTT CAGACGAGAA	AGCTGTCTCC TCGACAGAGG
751	ATTGCCTCGG TAACGGAGCC	CCTTCTTTGC GGAAGAAACG	TTTTTGTGGG AAAAACACCC	GGAGAGGGGA CCTCTCCCCT	GGGGACGGGC CCCCTGCCCG
801	AGGGTCTCTG TCCCAGAGAC	TCGCCCAGGC AGCGGGTCCG	TGGGGTGCAG ACCCCACGTC	TGGCGCGATC ACCGCGCTAG	CCAGCACTGC GGTCGTGACG
851	AGCCTCAACC TCGGAGTTGG	TCCTGGGCTC AGGACCCGAG	AAGCCATCCT TTCGGTAGGA	TCCGCCTCAG AGGCGGAGTC	CTTCCCCAGC GAAGGGGTCG
901	AGCTGGGACT TCGACCCTGA	ACAGGCACGC TGTCCGTGCG	GCCACCACAG CGGTGGTGTC	CCGGCTAATT GGCCGATTAA	ТТТТАТТТАА ААААТАААТТ
951	AAAAAACATC	TCTGCTCCAA	TCGCCATGTT AGCGGTACAA	GCCCAGGCTG CGGGTCCGAC	GTCTTGAACT CAGAACTTGA
1001	CCGGGGCTCA GGCCCCGAGT				

FIG. 6

humct1	1	MSRREGSLEDPQTDSSVSLLPHLEAKIRQTHSLAHLLTKYAEQLLQEYVQLQG ** ***** *** *** * **** **** ***** *****
chf.781	1	MSQREGSLEDHQTDSSISFLPHLEAKIRQTHNLARLLTKYAEQLLEEYVQQQG
humct1	54	DPFGLPSFSPPRLPVAGLSAPAPSHAGLPVHERLRLDAAALAALPPLLDAVCR
chf.781	54	EPFGLPGFSPPRLPLAGLSGPAPSHAGLPVSERLRQDAAALSVLPALLDAVRR
humct1	107	RQAELNPRAPRLLRRLEDAARQARALGAAVEALLAALGAANRGPRAEPPAATA
chf.781	107	RQAELNPRAPRLLRSLEDAARQVRALGAAVETVLAALGAAARGPGPEPVTVAT
humct1	160	SAASATGVFPAKVLGLRVCGLYREWLSRTEGDLGOLLPGGSA
114	100	* * * * **** **** ** ***** ** *
chf.781	160	LFTANSTAGIFSAKVLGFHVCGLYGEWVSRTEGDLGQLVPGGVA